analog
address
U S E R   M A N U A L

The Analog Address™ system is a lighting control system that allows you to control architectural lighting from wall-mounted slider stations. The system can control up to eight analog channels wired to DMX512 dimmers. Up to eight slider stations may be installed. The system also includes a processor unit from which you can assign dimmers to channels and enter other system settings.

In addition to the eight analog channels, the system also includes a panic channel and a work light channel. Panic and work light channels gives you immediate access to emergency lights and work lights independent of the eight analog channels. The Analog Address system includes the following features:

- Eight analog channels
- One panic channel
- One work light channel
- User-definable fade time
- Console pile-on and disable modes
- Diagnostic tests
- One DMX512 input
- One DMX512 output

Analog Address hardware components:

- Processor unit
- Up to eight slider stations
- Up to eight panic stations
- Up to eight work light stations
- Keyswitch lockout available for all stations

Each slider station includes at least one analog channel potentiometer (pot), a take control switch, and may include any of the following:
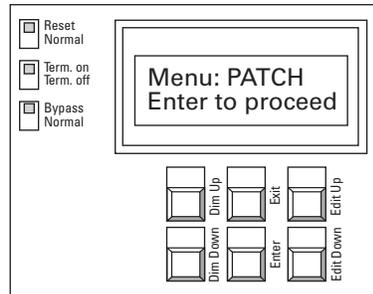
- Up to eight channel pots
- Local master pot (if more than two channel pots)
- Panic button
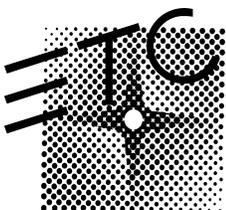
Processor unit operation

You can perform the following functions from the processor unit; each is described below.

- Assign dimmers to analog, panic and work light channels
- Set fade time
- Select console pile-on or disable mode
- Select DMX512 bypass mode
- Set DMX512 protocol termination
- Perform diagnostic dimmer tests

Reset Normal
Term. on Term. off
Bypass Normal

Menu: PATCH
Enter to proceed

Dim Up Exit Edit Up
Dim Down Enter Edit Down

Processor unit keypad

Assigning dimmers to analog, panic and work light channels

Patch screen

```
Dim = 512          Chan = 1
W= Y  P= N              > 1
```

Dim =   Dimmer number
Chan =   Channel to which dimmer is assigned
W =   Y if assigned to work light channel, N if not
P =   Y if assigned to panic channel, N if not
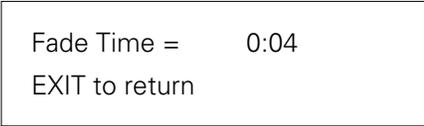**>**   Channel editing field

1. Press [Exit] to activate processor unit and display menu.

2. Scroll through menu options on LCD using Dimmer [Up] and [Down] buttons until **Patch** appears.

3. Press [Enter] to display Patch screen (see illustration).

4. Select channel number to which you want to assign dimmers by pressing Edit [Up] and [Down]. Channel numbers one through eight, W (work light), and P (panic) appear in channel editing field (see illustration).

5. Select dimmer number you wish to assign to channel by pressing Dimmer [Up] and [Down]. Dimmer numbers stop scrolling when you reach 1; press [Up] or [Down] again to resume scrolling.

6. Press [Enter] to record dimmer assignment. The screen displays the dimmer's new channel assignment.

7. Select next dimmer number to assign to channel, and press [Enter]. Repeat until all desired dimmers are assigned to channel. You may assign any number of dimmers to each analog channel, but may assign each dimmer to only one analog channel. Dimmers included in analog channels may also be assigned to panic and work light channels.

8. Repeat steps 4 through 6 for next channel. Or, to return to menu, press and hold [Exit].

Setting fade time

The fade time is the length of time analog channels take to fade up or down when you press [Take Control] at a slider station. Fade time applies to all analog channels and the work light channel. Panic channel turns on instantly. Follow these steps to set fade time:

1. Press [Exit] to display menu.

2. Scroll through menu options on LCD using Dimmer [Up] and [Down] until **Fade Time** appears.

Fade time screen

3. Press [Enter] to display the Fade Time screen (see illustration).

```
Fade Time =      0:04
EXIT to return
```

4. Press Edit [Up] and [Down] to set the desired fade time. You may enter a fade time between 0:00 seconds and 5:59 minutes.

5. Press and hold [Exit] to save selection and return to menu.

Selecting console pile-on or disable mode

If you have a lighting control console wired into the Analog Address system, you can choose whether or not the console can control dimmers included in analog channels.

Two console control options are available: **pile-on** and **disable**. If you select **pile-on**, the console is able to control all dimmers included in Analog Address channels; the highest setting between the console and Analog Address establishes active levels. If you select **disable**, the console is not able to control any dimmers included in analog or panic channels; the console can still control dimmers included in only the work light channel. In disable mode, console controls all dimmers not included in Analog Address analog or panic channels.

To select console control mode, follow these steps:

1. Press [Exit] to display menu.

Console mode screen

2. Scroll through menu options on LCD using Dimmer [Up] and [Down] until **Console** appears.

```
Console =   Pile On
EXIT to return
```

3. Press [Enter] to display the **Console mode** screen (see illustration).

4. Press Edit [Up] and [Down] to select **pile-on** or **disable**.

5. Press [Exit] to save selection and return to menu.

Selecting bypass mode

The bypass switch on the processor unit allows you to disable the Analog Address system, and to permit DMX512 data to pass directly from the console to the dimmers. You may choose to use bypass if you want only the console to control dimmers, or if the Analog Address system malfunctions.

To enter bypass mode, set bypass switch to **Bypass**. To resume normal operation, set bypass switch to **Normal**.

Selecting DMX termination or normal modes

The terminate switch on the processor unit terminates a DMX512 signal from a remote control console. The processor unit combines the incoming DMX512 data with the Analog Address data, and generates a new DMX512 signal.

The Analog Address system is normally the last receiver on a DMX512 data stream. If so, set the Termination switch to **Terminate on**. If your Analog Address system is not the last receiver, set the switch to **Terminate off**.

Performing diagnostic tests

Three diagnostic tests are available from the processor unit: Test one, Test all and Monitor.

Test one and **Test all**
Allow you to set one or all dimmers at a specific output level directly from the processor unit.

Monitor
Displays which control station currently has control, if panic and work light channels are active, and if the processor unit is receiving data from a control console. Monitor also displays current output levels for all analog channels.

To perform diagnostic tests, follow these steps:

1. Press [Exit] to display menu.

2. Scroll through menu options on LCD using Dimmer [Up] and [Down] until test name appears, **Test one**, **Test all** or **Monitor**.

Test one screen

```
Dimmer = 512
Level = FF
```

3. Press [Enter] and hold until LCD displays test screen.

4. **Test one:**
    Press Dimmer [Up] and [Down] to select desired dimmer number.

    Press Edit [Up] and [Down] to select dimmer output level. Or, to set dimmer at 100 percent, press [Enter] , Edit [Up]. To set dimmer at 0 percent, press [Enter], Edit [Down]. Press [Enter] again to return to the menu.

Test all screen

```
All dimmers
Level = FF
```

    Test all:
    Test allows you to control output of all dimmers. When you enter Test all, Analog Address turns all dimmers off until you enter an output level .

    Press Edit [Up] and [Down] to select output level.

```
T = 1   P = Y   W = N   D = Y
9 0 9 0 7 5 F F  0 0 0 0 0 0 0 0
```

Monitor:

When in Monitor test, the following information appears (see illustration).

T =   (Take Control) indicates which control station currently has control of channels.

P =   (Panic) indicates if panic channel is active (Y for yes, N for no).

W =   (Work light) indicates if work light channel is active (Y for yes, N for no).

D =   (Data) indicates if the control panel is receiving data from a console (Y for yes, N for no).

The bottom row of numbers displays the level that each channel is currently outputting. The first two digits indicate channel 1's output level; the third and fourth digits indicate channel 2's output level, etc. If channel output is 100 percent, the level digits read FF.

In the illustration above, slider station 1 has control; the panic channel is active; the work light channel is not; and the processor unit is receiving data from a console. Channels 1 and 2 are outputting at 90 percent, channel 3 at 75, channel 4 at 100 percent, and the remaining channels are off.

Slider stations

Five channel slider station with panic switch

Slider stations include from one to eight channel pots and a take control switch. If the station has three or more channel pots, a local master is also included on the station. Slider stations may also include an integral panic switch. All slider station controls are described below.

[Take Control]

Press [Take Control] to activate a slider station and fade channels to the levels set on station's channel pots; all other channels fade out. Only one control station can have control of channels at a time. The last [Take Control] pressed determines which control station is active. Channels cross fade in fade time set on processor unit (see page 3).

When station is active, a green LED on [Take Control] is illuminated. When station is inactive, an amber LED is illuminated.

Channel potentiometers

Channel pots control channel output levels. You can change output levels before or after pressing [Take Control]. Printed scale next to each pot displays output percentage divided by 10. For example, channel outputs at 50 percent when you set pot to 5.

Master

Master pot determines output percentage of all channel pots at the control station. For example, if master is set at 5 (50 percent), all station channels output at 50 percent of their current settings. Master potentiometers are provided on all control stations with three or more channel pots.

[Panic]

[Panic] sets panic channel to full intensity instantly. Press [Panic] again to turn panic channel off. Analog channel levels are not affected by panic channel.

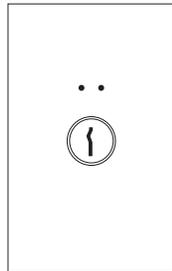# Panic/work light stations

Panic station

Panic station may have either a pushbutton switch or a keyswitch. For pushbutton stations, press [Panic] to switch panic channel on. For keyswitch stations, insert key and turn one quarter turn and back to original position. Panic channel switches to full intensity immediately (fade time is always 0:00 seconds). To switch panic channel off, press [Panic] or turn panic key at any panic station. Panic station LED is amber when panic channel is not active; LED is green when panic is active.

Work light station

To switch work light channel on, press [Work light]. Channel fades to full intensity over fade time set for analog channels. To fade out work light channel, press [Work light] at any work light station. Work light station LED is amber when channel is not active; LED is green when it is active.

Panic station

Keyswitch

Keyswitch stations allow you to disable an associated slider, panic or work light station. When keyswitch is set **Off** (amber LED illuminated), associated station is disabled. When set **On** (green LED illuminated), associated station operates normally.

Keyswitch station